Environmental Toxicology and Water Quality
An International Journal
(Formerly Toxicity Assessment)

Author Index to Volume 11, 1996

Ahokas, J. T., see Mosse, P. R. L.
Akujobi, T. C., see Okpokwasili, G. C.
Al-Muzaini, S., and Jacob, P. G.: The Distribution of V, Ni, Cr, Cd, and Pb in Topsoils of the Shuaiba Industrial Area of Kuwait, 285
Almanza, G., Cruz, L. E., and Diaz-Baez, M. C.: Rapid Toxicity Assessment of Water-Soluble Chemicals Using a Fed-Batch Reactor Technique, 273
Alvarez, A. J., Yumet, G. M., Santiago, C. L., and Toranzos, G. A.: Stability of Manipulated Plasmid DNA in Aquatic Environments, 129
Alvarez, A. J., Yumet, G. M., Santiago, C. L., Hazen, T. C., Chaudhry, R., and Toranzos, G. A.: In Situ Survival of Genetically Engineered Microorganisms in a Tropical Aquatic Environment, 21
Alzuet, P. R., Gaspes, E., and Ronco, A. E.: Mutagenicity of Environmental Samples from an Industrialized Area of the Rio de la Plata Estuary Using the Salmonella/Microsomal Assay, 231
Aoyama, I., see Liu, D.
Aoyama, I., see Okamura, H.
Aoyama, I., see Pacepavicius, G. J.
Aranda, M., see P. Cañas

Belanger, S. E., Rupe, K. L., Lowe, R. L., Johnson, D., and Pan, Y.: A Flow-Through Laboratory Microcosm Suitable for Assessing Effects of Surfactants on Natural Periphyton, 65
Belanger, S. E., see Lauth, J. R.
Belkin, S., Van Dyk, T. K., Vollmer, A. C., Smulski, D. R., and LaRossa, R. A.: Monitoring Subtoxic Environmental Hazards by Stress-Responsive Luminous Bacteria, 179
Besser, J. M., see Leweke, E. C.
Blaise, C., see Gagné, F.
Blaise, C., see Legault, R.
Brumley, C. M., see Mosse, P. R. L.
Bulus Rossini, G. D., and Ronco, A. E.: Acute Toxicity Bioassay Using *Daphnia obtusa* as a Test Organism, 255
Bury, N. R., Eddy, F. B., and Codd, G. A.: Stress Responses of Brown Trout, *Salmo Trutta L.*, to the Cyanobacterium, *Microcystis aeruginosa*, 187
Bustos, S., Soto, J., and Tchernitchin, A. N.: Estrogenic Activity of p,p'-DDT, 265

Cañas, P., and Aranda, M.: Decontamination and Inhibition of Patulin-Induced Cytotoxicity, 249
Carey, J. H., see Rao, S. S.
Castillo, G., see Dutka, B. J.
Castillo, G., see Miranda, C. D.
Céspedes, R., see González, B.
Chandra, H., see Srivastava, R. K.
Chandra, P., see Sinha, S.
Chaudhry, R., see Alvarez, A. J.
Chen, C.-Y., and Yeh, J.-T.: Toxicity of Binary Mixtures of Reactive Toxicants, 83
Cherry, D. S., see Lauth, J. R.
Clément, P., see González, B.
Codd, G. A., see Bury, N. R.
Corbisier, P., Thiry, E., and Diels, L.: Bacterial Biosensors for the Toxicity Assessment of Solid Wastes, 171
Cortes, G., Mendoza, A., and Muñoz, D.: Toxicity Evaluation Using Bioassays in Rural Developing District 063 Hidalgo, Mexico, 137
Cortes, G., see Mendoza, C. A.
Cruz, L. E., see Almanza, G.

Diaz-Baez, M. C., and Roldan, F.: Evaluation of the Agar Plate Method for Rapid Toxicity Assessment with Some Heavy Metals and Environmental Samples, 259
Diaz-Baez, M. C., see Almanza, G.
Diels, L., see Corbisier, P.
Dombroski, E. C., Gaudet, I. D., Florence, L. Z., and Qureshi, A. A.: A Comparison of Techniques Used to Extract Solid Samples Prior to Acute Toxicity Analysis Using the Microtox Test, 121
Dutka, B. J., McInnis, R., Jurkovic, A., Lui, D., and Castillo, G.: Water and Sediment Ecotoxicity Studies in Temuco and Rapel River Basin, Chile, 237
Dutka, B. J., see Liu, D.
Dyer, S. D., see Lauth, J. R.

Eddy, F. B., see Bury, N. R.
Edsholt, E., see Svenson, A.
Ehrenfeld, N., see González, B.
Espigares, M., Pérez López, J. A., Fernández-Crehuet, M., and Gálvez, R.: Assays for the Tertiary Biological Treatment of Wastewater Using Autotrophic Biomass, 37

Ezeonu, F. C., and Okaka, A. N. C.: Seasonal Profile of Nitrate and Nitrite in Potable Water Sources in Onitsha, Nigeria, 99

Fackler, P., see Kent, D.
Fernández-Crehuet, M., see Espigares, M.
Florence, L. Z., see Dombroski, E. C.

Gálvez, R., see Espigares, M.
Gadd, G. M., see Webster, E. A.
Gagné, F., and Blaise, C.: Available Intracellular Zn as a Potential Indicator of Heavy Metal Exposure in Rainbow Trout Hepatocytes, 319
Gagné, F., and Blaise, C.: Flow Cytometry Measurement of Mixed Function Oxidase Activity and Cell Viability in Rainbow Trout (*Oncorhynchus mykiss*) Hepatocytes: Method Development, 53
Gaspes, E., see Alzuet, P. R.
Gaudet, I. D., see Dombroski, E. C.
Gaynor, J. D., see Pacepavicius, G. J.
Gerdeau, D., see Perret, M.-C.
Ghosh, S. K., Doctor, P. B., and Kulkarni, P. K.: Toxicity of Zinc in Three Microbial Test Systems, 13
Giesy, J. P., see Leweke, E. C.
González,, B., Clément, P., Céspedes, R., Valenzuela, J., Matus, V., Maturana, A., and Ehrenfeld, N.: Degradation of Environmental Pollutants by *Alcaligenes eutrophus* JMP134 (pJP4), 205
Gupta, M., see Sinha, S.

Hansen, P. D., see Rao, S. S.
Hartley, D., see Kent, D.
Hazen, T. C., see Alvarez, A. J.
Herbert, A., see Rao, S. S.
Hobson, J., see Kent, D.
Holdway, D. A., see Mosse, P. R. L.
Hynning, P.-Å., see Svenson, A.

Jacob, P. G., see Al-Muzaini, S.
Johnson, D., see Belanger, S. E.
Jurkovic, A., see Dutka, B. J.

Kent, D., Fackler, P., Hartley, D., and Hobson, J.: Interpretation of Data from Nonstandard Studies: The Fate of Octamethylcyclotetrasiloxane in a Sediment/Water Microcosm System, 145
Kubitz, J. A., see Leweke, E. C.
Kulkarni, P. K., see Ghosh, S. K.

Lam, P. K. S.: Sublethal Effects of Cadmium on the Energetics of a Tropical Freshwater Snail, *Brotia hainanensis* (Brot, 1872), 345
LaRossa, R. A., see Belkin, S.
Lauth, J. R., Dyer, S. D., Belanger, S. E., and Cherry, D. S.: A Novel Flow-Through Method for Toxicity Assessments Using *Ceriodaphnia dubia*, 335
Legault, R., Blaise, C., Trottier, S., and White, P. A.: Detecting Genotoxic Activity in Industrial Effluents Using the SOS Chromotest Microplate Assay, 151
Leweke, E. C., Kubitz, J. A., Besser, J. M., and Giesy, J. P.: Biofluorescent Substances for Rapid Assessment of Toxicants on Invertebrates, 313
Liu, D., Aoyama, I., Okamura, H., and Dutka, B. J.: Enhancement of Toxicant Release from Sediment by Sonication and Sodium Ligninsulfonate, 195
Liu, D., see Dutka, B. J.
Liu, D., see Okamura, H.
Liu, D., see Pacepavicius, G. J.
Lowe, R. L., see Belanger, S. E.
Luo, R., see Okamura, H.

Maguire, R. J., see Pacepavicius, G. J.
Maturana, A., see González, B.
Matus, V., see González, B.
McInnis, R., see Dutka, B. J.
Mendoza, A., see Cortes, G.
Mendoza, C. A., Cortes, G., and Muñoz, D.: Heavy Metal Pollution in Soils and Sediments of Rural Developing District 063, Mexico, 327
Metcalfe, C. D., see Rao, S. S.
Miranda, C. D., and Castillo, G.: Isolation and Characterization of Motile Aeromonads from Chilean Freshwaters and Their Potential Use as Water Quality Indicators, 91
Mosse, P. R. L., Brumley, C. M., Ahokas, J. T., and Holdway, D. A.: A Preliminary Investigation into the Use of Biomarkers for the Monitoring of an Ocean Outfall, 113
Muñoz, D., see Cortes, G.
Muñoz, D., see Mendoza, C. A.
Muranen, P. J. J., Niemi, R. M., Niemelä, S. I., and Niinioja, R.: Comparison of Media for the Enumeration of *Klebsiella* from Aquatic Samples Contaminated with Domestic and Industrial Waste Waters, 301

Neheli, T. A., see Rao, S. S.
Neheli, T., see Rao, S. S.
Ng, H., see Pacepavicius, G. J.
Niemelä, S. I., see Muranen, P. J. J.
Niemi, R. M., see Muranen, P. J. J.
Niinioja, R., see Muranen, P. J. J.
Norin, H., see Svenson, A.

Okaka, A. N. C., see Ezeonu, F. C.
Okamura, H., Luo, R., Aoyama, I., and Liu, D.: Ecotoxicity Assessment of the Aquatic Environment around Lake Kojima, Japan, 213
Okamura, H., see Liu, D.
Okamura, H., see Pacepavicius, G. J.
Okpokwasili, G. C., and Akujobi, T. C.: Bacteriological Indicators of Tropical Water Quality, 77

Pacepavicius, G. J., Liu, D., Maguire, R. J., Ng, H., Gaynor, J. D., Okamura, H., and Aoyama, I.: Assessment of Cyanazine Persistence in Water, 27
Pan, Y., see Belanger, S. E.
Pande, D. P., see Srivastava, R. K.
Pérez López, J. A., see Espigares, M.
Perret, M.-C., Gerdeau, D., and Rivière, J.-L.: Use of Esterase Activities of the Zebra Mussel (*Dresissena polymorpha* Pallas) as a Biomarker of Organophosphate and Carbamate Pesticides Contamination, 307

Qureshi, A. A., see Dombroski, E. C.

Ramirez, N. E., Vargas, M. C., and Sanchez, F. N.: Use of the "Sediment-Chromotest" for Monitoring Stimulated Hydrocarbon Biodegradation Processes, 223
Rao, S. S., Neheli, T. A., Carey, J. H., Herbert, A., and Hansen, P. D.: DNA Alkaline Unwinding Assay for Monitoring the Impact of Environmental Genotoxins, 351
Rao, S. S., Neheli, T., and Metcalfe, C. D.: Hepatic Micronucleus Assay for the Assessment of Genotoxic Responses in Fish, 167
Remberger, M., see Svenson, A.

Ricking, M., see Svenson, A.
Rivière, J.-L., see Perret, M.-C.
Röttorp, J., see Svenson, A.
Roldan, F., see M. C. Diaz-Baez
Ronco, A. E., see Alzuet, P. R.
Ronco, A. E., see Bulus Rossini, G. D.
Rupe, K. L., see Belanger, S. E.

Sanchez, F. N., see Ramirez, N. E.
Santiago, C. L., see Alvarez, A. J.
Singh, K. P., see Srivastava, R. K.
Sinha, A. K., see Srivastava, R. K.
Sinha, S., Gupta, M., and Chandra, P.: Bioaccumulation and Biochemical Effects of Mercury in the Plant *Bacopa monnieri* (L), 105
Smulski, D. R., see Belkin, S.
Soto, J., see Bustos, S.
Srivastava, R. K., Sinha, A. K., Pande, D. P., Singh, K. P., and Chandra, H.: Water Quality of the River Ganga at Phaphamau (Allahabad)—Effect of Mass Bathing during Mahakumbh, 1
Svenson, A., Edsholt, E., Ricking, M., Remberger, M., and Röttorp, J.: Sediment Contaminants and Microtox Toxicity Tested in a Direct Contact Exposure Test, 293
Svenson, A., Norin, H., and Hynning, P-Å.: Toxicity-Directed Fractionation of Effluents Using the Bioluminescence of *Vibrio fischeri* and Gas Chromatography/Mass Spectroscopy Identification of the Toxic Components, 277

Tchernitchin, A. N., see Bustos, S.
Thiry, E., see Corbisier, P.
Toranzos, G. A., see Alvarez, A. J.
Trottier, S., see Legault, R.

Valenzuela, J., see González, B.
Van Dyk, T. K., see Belkin, S.
Vargas, M. C., see Ramirez, N. E.
Vollmer, A. C., see Belkin, S.

Weber, D. N.: Lead-Induced Metabolic Imbalances and Feeding Alterations in Juvenile Fathead Minnows (*Pimephales promelas*), 45
Webster, E. A., and Gadd, G. M.: Stimulation of Respiration in *Ulva lactuca* by High Concentrations of Cadmium and Zinc: Evidence for an Alternative Respiratory Pathway, 7
White, P. A., see Legault, R.

Yeh, J.-T., see Chen, C.-Y.
Yumet, G. M., see Alvarez, A. J.

Environmental Toxicology and Water Quality
An International Journal
(Formerly Toxicity Assessment)

Subject Index to Volume 11, 1996

Acetylcholinesterase, 307
Acute, 335
Acute toxicity, 121, 255, 313
Aeromonas hydrophila, 77
Agar plate test, 213, 259
Alcaligenes eutrophus, 205
Algal communities, 65
Algal test, 213
Alkaline phosphatase, 151
Alkyl sulfate, 335
Alternative pathway, 7
Ammonium, 37
Antioxidant, 105
Apple juice, 249
Aquatic biota, 351
Aquatic fate, 27
Ascorbate, 105
Ascorbic acid, 249
Autotrophic biomass, 37

Bacillus cereus, 13
Bacillus subtilis, 249
Bacterial bioassay, 13
Behavioral patterns, 45
Bioaccumulation, 105
Bioassay, 137, 171, 179, 195, 213, 237, 249, 255
Bioaugmentation, 223
Biochemical responses, 105
Bioconcentration, 137
Biodegradation, 27, 145, 223
Biodetoxification, 223
Bioluminescence, 171
Biomarker, 113, 307, 319
Biomonitoring, 167
Biosensors, 171
Biotransformation, 27
BOD, 1

Cadmium, 7, 345
Carbamate, 307
Carboxylic esterase, 307
Carcinogens, 167, 351
Cd, 285
Cell viability, 53
Ceriodaphnia dubia, 313, 335
Chemical mixtures, 83
Chloroguaiacols, 205
Chlorophenols, 205
Chlorophyll, 37
Chronic, 335
Clone, 129
COD, 1, 37
Column chromatography, 277
Community richness, 65
Concentration-response, 83
Conductivity, 37
Contaminant, 259, 293
Copper, 65, 313
Core chamber, 145
Cr, 285
Cyanazine, 27
Cyanobacteria, 187
Cyanobacterial toxins, 187
Cytotoxicity, 249

Daphnia immobilization, 213
Daphnia magna, 137, 213, 313
Daphnia obtusa, 255
DDT, 265
Defecation, 45
Degradation, 205
Detoxification, 105
Diffusion chamber, 21
DNA abberation, 351
DNA damage, 179, 351
DNA, 129, 167
DNP, 7
Drinking water, 91, 137, 237

E. coli, 129
Eco-Core, 145
Ecotoxicity, 179, 213, 237
EC_{50}, 121
Effluent, 105, 113, 151, 205, 277
Endpoint, 53, 151, 313, 319
Energetics, 345
Eosinophils, 265
EROD, 113

EROD activity, 53
Esterase, 307
Estrogen, 265
Estrogenic activity, 265
Exposure, 113
Extraction techniques, 121
Extraction, 195

Faecal coliforms, 1, 77
Fate, 145
Fathed minnows, 45
Feed alterations, 45
Fertility, 265
Flow cytometry, 53
Flow-through test, 335
Fluorescent test, 313
Fractionation, 277
Freshwater, 91, 255

β-Galactosidase, 151
GC-MS identification, 277
GEMs, 21
Genetic engineering, 179
Genetic manipulation, 129
Genotixicants, 167
Genotoxic hazards, 179
Genotoxicant, 151
Genotoxicity, 137
Genotoxins, 351
Glutathione, 105

Hardness, 37
Health risk, 91
Heavy metal, 171, 273, 285, 293, 319, 327
Hepatocytes, 53, 167, 319
Herbicide, 27

Indicator, 91
Indicator bacteria, 77
Intermediate, 223
Irrigation water, 91, 137
Irrigation, 327

Joint action, 83

Klebsiella, 301

Lake Kojima, 213
Leachate, 27, 121
Lead, 45
Leukocytes, 265
Liver, 167
LOEC, 345
Luminous bacteria, 179
Lux gene, 179

M-Kleb, 301
Mass bathing, 1
MCF, 53
Membrane filtration, 77, 301
Mercury toxicity, 105
Metabolic imbalances, 45
Metabolite, 265
Metallothionein, 319
mFCIC, 301
MFO activity, 53
MFO, 113
Microalgae, 37
Microbial community, 129
Microbial degradation, 27
Microcosm, 65, 145
Microcystins, 187
Microcystis aeruginosa, 187
Micronuclei, 167
Microtox, 13, 121, 293
Microtox test, 83, 277
Monitoring, 113, 179, 255, 351
Motile *aeromonas*, 91
Mutagenicity, 231
Myometrial hypertrop, 265

Ni, 285
Nitrate, 37, 99
Nitrite, 37, 99
NOEC, 65, 345

Ocean outfall, 113
Oil pollution, 285
Oil sludge, 223
Oligomycin, 7
Organochlorine compounds, 205
Organophosphate, 307
Oxidative hazards, 179
O_2 uptake, 7

PAHs, 231
Panagrellus redivivus, 137
Patulin, 249
Pb, 285
Periphyton, 65
Persistence, 27
Pesticide, 213, 293, 307
Plasma cortisol, 187
Plasmid, 21, 129
Platycephalus bassensis, 113
Pollution, 327
Potable water, 99
Promoter, 179
Propidium iodide, 53

Rainbow trout, 319
Reactor, 273
Respiration, 7, 273, 345
Risk assessment, 231
Runoff, 27, 91

Salmonella/microsomal assay, 231
Salmonella typhimurium, 231
Screening bioassay, 151
Screening test, 259
Sediment, 145, 213, 231, 237, 293, 327
Sediment-Chromotest, 223
Sediment toxicity, 195
SHAM, 7
Sludge, 273
Snail, 345
Sodium ligninsulfonate, 195
Soil, 285, 327
Solid sample, 121

Solvent, 195
Sonication, 195
SOS chromotest, 151
Spirillum volutans, 13
Stress response, 179, 187
Sublethal effects, 187, 345
Sulphur, 293
Surface water, 213, 231
Surfactant, 65, 335
Survival, 21
Synergism, 83

Toxicant, 65, 83, 195, 277
Toxicity, 137, 171, 223, 255, 259, 273, 335
Toxicity model, 83
Trace metals, 285
Tropical environment, 21
Tropical water, 77
Trout, 187

Ulva lactuca, 7
Umu test, 249
Uncoupler, 7

V, 285
Vibrio fischeri, 179
Vibrio species, 77
Visuo/psychomotor, 45
Volatility, 145

Wastes, 171
Wastewater, 37, 179, 259, 301, 327
Water, 237
Water borne diseases, 1
Water quality, 1, 77, 91, 99

Zebra mussel, 307
Zinc, 7
Zinc toxicity, 13
Zn, 319